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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/628,008	07/25/2003	Angel Stoyanov	25297	3946
28624	7590 09/30/2004		EXAMINER	
WEYERHAEUSER COMPANY INTELLECTUAL PROPERTY DEPT., CH 1J27			CHIN, PETER	
P.O. BOX 9	777		ART UNIT	PAPER NUMBER
FEDERAL '	WAY, WA 98063		1731	
			DATE MAILED: 09/30/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/628,008						
Office Action Summary	Examiner	STOYANOV ET AL.					
		Art Unit					
The MAILING DATE of this communication	Peter Chin	th the correspondence address					
Period for Reply	appeare on the corol office with	in the correspondence addres	is				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT atute, cause the application to become ARA	reply be timely filed (30) days will be considered timely. THS from the mailing date of this communication.	nication.				
Status							
1) Responsive to communication(s) filed on							
3) Since this application is in condition for allow		ers, prosecution as to the med	rite ie				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	irawn from consideration.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.							
7) Claim(s) iş/are objected to.							
8) Claim(s) are subject to restriction and	d/or election requirement						
Application Papers							
		•	•				
9) The specification is objected to by the Exami		•	•				
10) The drawing(s) filed on is/are: a) a							
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The path or declaration is objected to by the	ection is required if the drawing(s) is objected to. See 37 CFR 1.1	l21(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attached (Office Action or form PTO-15	52.				
Priority under 35 U.S.C. § 119	•						
 12) ☐ Acknowledgment is made of a claim for foreignal All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume 		19(a)-(d) or (f).					
2. Certified copies of the priority docume		olimadinu Blu					
3. Copies of the certified copies of the pri	iority documents have been re	Dilication No					
application from the International Bure	eau (PCT Rule 17 2/a))	scerved in this National Stage	3				
* See the attached detailed Office action for a lis	st of the certified copies not re	ceived					
	· · · · · · · · · · · · · · · · ·	1					
Attachman (14)	•						
Attachment(s) 1) Notice of References Cited (PTO-892)							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		rmal Patent Application (PTO-152)					

Application/Control Number: 10/628,008

Art Unit: 1731

DETAILED ACTION

1. Claims 1-3,6-7,9,10,13,15,16,19 and 20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jewell et al (6,207,278) and if necessary Jewell et al (6,551,706 a continuation of 6,207,278).

Jewell et al ('278) discloses the claimed invention. While the examples in Jewell et al ('278) use a mixture of glyoxal and a glycol, the disclosure states that the glycol is merely optional, being present in an amount of up to 2%, column 2, lines 31-37. This range includes zero amounts as the lower limit. Thus Jewell et al anticipates the claimed invention or at the least it would have been obvious to omit the glycol since it is merely optional. If additional evidence is necessary to show that the glycol is merely an optional component of the glycol crosslinking agent, see claims 1 and 6 of Jewell et al ('706), which patent is based on the continuation application that matured into the ('278) patent. Claim 1 claims only glyoxal and claim 6 claims the combination of glyoxal and glycol which clearly supports and shows that Jewell et al disclose the use of glyoxal as a single crosslinking agent.

2. Claims 4,5,8,11,12,14,17,18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jewell et al (6,207,278) and if necessary Jewell et al (6,551,706).

Jewell et al ('278) discloses time and temperature of curing for glyoxal and glycol crosslinking of the cellulose fibers. Time and temperature of curing are process effective parameters to achieve the requisite wet bulk that is preferably greater than about 25 cc/g at 0.6 kPa. Thus, it would have been obvious to employ the claimed curing temperature and time for crossslink cellulose fibers using glyoxal as the sole

Art Unit: 1731

crosslinking agent since it is merely optimization of process effective parameters to achieve the desired wet bulk. As to the claimed brightness in claims 8,14 and 20, this limitation is merely a reflection of the use of bleached pulp, which is one type of pulp taught by Jewell et al. Thus it would have been an obvious to employ a bleached pulp and the ISO value would depend on the type of product or article the crosslinked pulp will be used for.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Chin whose telephone number is (571) 272-1186. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PETER CHIN PRIMARY EXAMINER